

Alexandra Mandybur

Staff Hydrogeologist, Level 2

amandybur@shomaker.com

Ms. Mandybur has been with JSAI since August 2021. Her work includes field data collection, database organization and management, data analysis, report preparation, and visual representation of data with diagrams, maps, cross-sections, and more. Ms. Mandybur has field experience with groundwater, surface water, and soil monitoring/sampling, as well as performing aquifer pumping tests and providing oversight for environmental cleanup and well construction projects.

Database Development, Visual Representations of Data, and Technical Writing:

Development, organization, and maintenance of spreadsheets relating to well information, laboratory analysis results, and field data across various projects. Digital and manual creation of graphs, maps, tables, cross-sections, charts, and diagrams to clearly and effectively display data. Preparation and editing of reports, proposals, technical memos, and project updates.

Hydrogeologic Field Services:

Operation of monitoring equipment including well sounders, transducers, pygmy meters, and water quality meters to collect field data from groundwater and surface water. Sample collection of water for drinking water standards, PFAS contamination and hydrocarbon contamination analysis, and general chemistry analysis. Assisted in planning, data collection, and data analysis of constant-rate and step drawdown pumping tests.

Environmental Field Services:

Use of photoionization detectors (PIDs) and lithologic logging to constrain zones of contamination in the field, as well as collection of air, soil, and water samples for laboratory analysis. Oversight of geoprobe borehole investigations and dig-and-haul excavations at fuel supply sites. Fulfillment of ongoing quarterly monitoring and sampling requirements at sites undergoing reclamation.

Well Construction/Rehabilitation Oversight:

On-site supervision during the installation and of monitoring wells and water supply wells, in addition to oversight during various well rehabilitation efforts. Use of field observations from lithology logging to aid in well construction. Experience maintaining detailed records of well materials and construction methodologies during drilling, completion, and development.

Software Experience:

Microsoft Office Suite, Google Workspace, Adobe Acrobat, Adobe Illustrator, ArcGIS Pro, Arc GIS online, Win-Situ 5, Solinst Levellogger 4.4.0.

EDUCATION

B.S. Geology, 2021

Environmental Concentration
University of Illinois at Urbana-Champaign

REGISTRATIONS

Texas Board of Professional Geoscientists - Geoscientist-in-Training GIT-627

OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) certification

MSHA New Miner Part 48(B)

NMWQCC Water Sample Tech 2